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him, and acquaint him herewith : I have sometimes thought
 to have sent him an additional List of *Local Words*, which
 the before-mentioned *Goat (Eboracensibus Goat)* puts me in
 mind of ; the form of the *Skoe* was much like those found
 with some Urns at *Kirby Thore* in *Westmorland*, as de-
 scrib'd in the *Phil. Trans.* No 158.

VI. *Observations on the Class of Sweet Tastes, made by
 comparing the Tastes of Sweet Plants with Monsieur
 L' Emery's Chymical Analysis of them, in his Trea-
 tise of Drugs, by Sir John Floyer.*

I Observe that by our Taste we may discern all the Chy-
 mical Principles in Plants before their distillation, and
 that for want of a due observation of their Tastes, Mr
L' Emery has not fully described the Chymical Principles
 which Plants do yield in Distillation.

All Watery Plants shew their Phlegm as well to the
 Taste as in Distillation ; and in all dry woody Tastes we
 observe the Earth, as well as we can by the Chymical
 Analysis.

By the Mucilage and Gumminess, or Oily Taste,
 we distinguish the Oyl of Plants, as well as by Distilla-
 tion.

The Aromatical Smell shews us the volatility of the Oyl
 and Salt of Plants, and by the foetidness we also know that
 the Oyl and Salt are in a volatile state.

By the acrimony and pungency we know that there is a
 Volatile Salt in Plants, and by their burning taste we find
 there is a Corrosive Salt in them.

By a crude rough Acidity we observe the Tartar, or
 essential Salt of Plants ; but if the Acidity be of a Vinous
 smell, we observe that 'tis of middle state of Digestion,
 and

and may be called a Vinous Tartar, and the Crude Tartar an Acerb Tartar, but if the Tartar had a pungent smell, then 'tis a Volatile Tartar, or Acid Acid Tartar.

I will next describe the principles observable in Sweet Tastes, and their several Classes, but must first observe that Sweet Tastes shew their Oyl by their slimy smoothness, and their Tartar is evident in their extracts, as in the Juice of Liquorish.

1. The Grass sweetens *gramen caninum* have much essential Salt and moderate Oyl, *Juncus equisetum*, *arundo*, *typha*, *nymphæa*, are all of the Rush kind, sweet and rough, and some of them have more Oyl, others more Acid, and that the most crude have more Oyl than Tartar.

2. The Corn Sweets, as Barley, Rye, Wheat, Oats, Rice, Millet, have much Oyl and essential Salt, and a little Volatile : So Bread yields Oyl and Essential and Volatile Salt.

Note, that Fermentation or the Fire produces the Volatile Salt, by exalting the Tartar into a Volatile Salt ; and the slimy mealiness in Corn supplies the Oyl. *Tragopogon* and *Scorzonera* are referable to the Grass, and contain much Oyl, and essential Salt.

3. The Subacid Sweets, as *Rampions*, *campanula*, *trachelium*, contain much Oyl and essential Salt, but the Acrimony in these Plants shews a Volatile Salt not described by the Chymist.

4. The Ferns contain Oyl and Essential Salt, as Polypody ; but the Acid principle is not observed by the Chymist, nor the fragrancy in Harts Tongue. *Osmunda* and the *Capillaries* have more Oyl than Salt, because more mucilaginous and crude.

5. All the Leguminous slimy Sweets have more Oyl than Tartar, but all much of both, as Broom, *Ononis*, *Aquilegia*, *fumaria*, Asparagus, *ruscus*, *thalictrum*, *polygonatum Sena*, *gelega*, *lathyrus*, *luteola*, *periclymenum*, *glyciriza*, *psyllium*, much Oyl and Volatile or Essential Salt.

Beans and Peas and Lentils have also a Volatile Salt and *lens aquatica*. Note, that since there is no Acrimony in these Seeds, the Volatile Salt is produced by the Fire

The Aromatic Legumens, as *Melilotus*, have an exalted Oyl, and essential Salt.

Periclymenum is described to have only essential Salt and Oyl, but since there is an Aromatic Odor in the flavour, and a great Acrimony, there must be some degree of Volatile Salt in it.

Fenagreke and Meadow Trefoyl have much Oyl and little Salt, and so has *Ophieglossum pinguicula* & *consolida regalis*.

6. The sweet Nuts, as Almonds, have much Oyl and essential Salt, but the bitter have more Salt than the sweet Almonds, therefore 'tis probable that the Tartar abounds more in all bitters, and that Tartar is the effect of a higher digestion, and the crudest Tastes, as Styptics, Sweetens and Slimes have least of it. So Chestnuts and Beech-nuts have much Oyl and little Salt. Filberds are described to have essential Salt, and a little Volatile as well as Oyl; but it seems no probability that one may have it, and none in any of the other.

7. The Sweet Acid or Vinous Tastes have much Oyl and essential Salt, as Prunes, Cherries, Strawberries; Raspberries. The variety of the Tastes of these Fruits shews the different digestions and mixtures, tho the principles are the same.

The Sweet Viscous Fruits, as Sebestens, have little essential Salt, and much Oyl.

8. The Sweet Aromatic Burning Tastes contain a Volatile Salt and Oyl, as *Schenanthus*, Ginger, Zed-Oary, Cubebs, Cardamums, *Vaynillas*, *contrayerva* *calamus aromaticus*; but these following are mistaken by the Chymist, who say that *Coffus amarus*, *dulcis*, *cyperus*, *galanga*. Orris, have a Volatile Oyl, but essential Salt only, for Orris is Acid and Aromatic as well as the rest, and therefore there is both Volatile Salt and Oyl in them, and also an essential Salt from their sweetness.

9. The

9. The sweet Acrid Aromaticks of the Fœnil Class have all a Volatile Salt and a Volatile Oyl, as Angelica, Lovage, Parsly, Meum, Dill. Note, The Leaves and Roots of Fœnil contain a Volatile Oyl and Essential Salt, the Seed a Volatile Oyl and Salt; but since the Roots and Leaves have a pungent Taste, there is also a Volatile Salt in them, tho the Chymist do not observe it.

All the parts of Carraways have the odor of Punaifes, except the Seed; from whence I may infer, that the foetid Plants have the same principles as the Aromatics, viz. a Volatile Oyl and Salt; and this is confirmed by other foetids which have them, as Rue and *Assa foetida*, and *Vulvaria*. *Peucedanum* is described off a bitter acid Taste, with the odor of Pitch, and must have a Volatile Salt, tho L' Emery describes only its essential Salt and Oyl: So in Smallege he describes only the essential Salt and Oyl, but its Acrid Taste manifests the Volatile Salt.

10. The Sweet Gums, as Manna, Sarcocolla, contain much Oyl and essential Salt; tho Honey and Sugar have more essential Salt than Oyl; by which we may observe how much essential Salt is in all Sweets, and why they are apt to turn sowre, and ferment; and from such sweet Gums all sweet Plants have their Acid and Oyl upon Distillation.

11. Citrulls, Melons, Gourds, Cucumbers, which are bitter Sweets, and very mucilaginous, contain much Oyl and little Salt.

Since the whole Classes of Sweet Plants contain an Oyl and Essential Salt, some more some less of both, the Vertues of the several sweet Tastes can never be explained by the Chymical Principles, and no new Virtues by them is discovered; therefore all the advantage we have obtained by these Chymical Distillations is only to shew the nature of Sweetness in general, by discovering the principles contained in sweet Plants, and this is a greater advantage to Natural Philosophy than to Physick, to which the tasting of Plants is more useful.

By the Taste we distinguish the Sweets into their several Classes, and we discern tempers and digestion, and mixture of their principles, and thence easily guess at their effects in Animals, and by the Taste we distinguish the different state of both the Oyl and Acid in Plants of different sweet Tastes; whereas the Chymists observe no difference of the Tartar Acid, whether it be Acerb, or Vinous, or Volatile; nor of the sweet Oyls from the bitter and slimy.

By the Taste we distinguish the Acrid and the Acid Salts, which mix in distillation; and they are not well distinguished by the Chymists.

By the Taste we discern when the Fire makes new products and mixtures, not naturally found in Plants; for in Corn, Beans, Peas, Bread, Fire produces a Volatile Salt not observable in them before: And a Volatile Salt is drawn from the lees of Wine by the Fire; and Leven yields also a Volatile Salt; whereas before in Corn only an Oyl and Acid were observed; and 'tis probable that the Tartar is Volatilized, both by the Fermentation and the Fire.

Coffee is a Bean by its Taste and Cods, and acquires a Volatile Salt by roasting; but *L' Emery* only mentions its Oyl and fixed Salt upon Distillation, but the fixed Salt is the effect of Fire, and its virtue depends on the Volatile.

No more Chymistry is necessary for the discovery of the Physical Vertues of Plants, than to make Decoctions of them in fair Water, and to observe the Tastes and other sensible qualities of those Decoctions, and from them to take the natural hints for the trial of their Vertues on Animal Bodies. I will confine my self to the Class of Sweet Tastes, and give an account of several Decoctions made in all the species of sweet Plants, and add some Tastes I had not formerly described fully, and such reasons as induced me to place them in the Class of Sweet Plants.

I hope these objections against Decoctions, that the Volatile parts expire, and the mucilage dissolving in the Water obscures the Taste: I therefore do confess, that Plants are best tasted in their natural state to discover all their Vertues, but these Decoctions do help to confirm our Tastes, and discover the great variety of Medicines which may be made from Sweet Tastes. Note, that all Decoctions must be tasted cold.

A Description of the Tastes and other sensible qualities in the Decoctions of Plants of the Sweet class.

1. **T**He Grass Sweets, under which are contained all sorts of Grasses and Rushes, Reeds and Corn; I refer *Nymphaea Alba* to the Rushes, both for its figure and taste, which is crude and styptic, with a bitterishness in the Seed; but the flowers are like Lillies of a sweet smell, and mucilaginous, sweet, styptic in Taste.

I boyled Horfe-tayl a handful in a pint of Water, and I found the Decoction to taste very Styptic with a bitterishness, and the Decoction looked like Small Beer, the Taste being like Rushes : I concluded it to be of the same Class. The Styptic Virtue is useful for all Fluxes.

Plantago aquatica boyled in Water gave a Caustic Acrid Taste, joyned with a crude rush Taste ; the Decoction was greenish and pale. This Caustic Acrimony is useful in the Scurvy and Dropsy. It is *aranunculus*, by its *capitula echineta*, as well as by its Acrimony.

Nymphaea lutea has a sweet Astringent lustre in the Flowers, with an Acrid smell like Cresses.

A Reed is of a sweet bitter and mucilaginous Taste, it absterges by the bitter without Acrimony, and cools by the Mucilage Subacid Styptic, by which tis a Rush.

Sagittaria is Sweet, Subacid and Styptic, by which it is a Rush.

Alga Marina is Subacid and Sweet, and something Styptic.

Fucus is of a sweet Salty Taste.

The Palm-Tree is Sweet and Styptic, and because of this Taste and its *folia arundinacea*, I refer it to the sweet Styptic ; a sweet Vinous Juice flows from its Bark being wounded, the Immature Fruit is very Styptic, but the mature sweet, viscid, vinous, and subastringent, proper for Fluxes.

Wine, Vinegar and Sugar are made from the sweet Juice.

The Infusate juice of the Palm Tree is the *Terra Japonica*, whose substance is gummose, and of a bitterish Styptic Taste, and also of a sweet Taste, and of a grateful odor. Boyl 3j of *Terra Japonica* in tbbj of Water, and sweeten it for a Cough or Looseness.

Leven is observed by *Ætius* to be cool by its acidity, to be hot being putrid, and also to have some Virtue from the Salt and Flower. He observes that Beer is hotter than Barley, and because of its putrifaction 'tis of an ill juice ; and he also observes, its Windiness depends on the Air included in it ; and the Waterish Beer and the Acid is cooling.

All these Virtues were discovered by the sensible qualities of Leven and Beer, without Chymistry. And we may observe that what we call Fermentation in them, was called by *Ætius* a Putrifaction. We have rectified the notion, and given it a new name, but the Antients knew the nature and effects of Fermentation as well as the Moderns ; and 'tis that which gives the different states of the principles in Plants, and the several states are best discovered by our Tastes and Sences.

I boyl.

I boyled *Gramen spica secalina*, and the Decoction was of a sweet, mucilaginous and styptic Taste.

The Roots of Grats have something of Acrimony and Astringency, but the Decoction tastes smooth and sweetish. The green Leaves of Grats are sweet and styptic. The Decoction of the Water was of a pale colour.

The Seeds of Grats are more diuretick and binding, I made a Decoction of them, which resembled Water-gruel.

Paronychia foliis rutaceis must be referred to the Grasses, because of its sweetness.

2. Quere whether *Rapunculus* be not of the Sweet Class, because the whole Plant is Sweet and Milky, and for that both are given to Nurses to increase Milk. The Roots of the rampions are something styptic and cooling, and proper against Inflammations.

Scorzonera and *Tragopogon* are referable to the Grasses, because of their geniculate Stalks, their Grassy Leaves, sweet Tastes and Milky Juice, the Decoction was smooth and of a pale colour.

Trachelium is also Sweet, Milky, Subacid, and Bitterish, of the same class.

3. The sweet mucilaginous and crude *Lychnis*, the decoction of *Alfine*, is sweetish and mucilaginous, the colour pale like Small Beer. I could observe no astringency in *Alfine*. I boyled ʒj in a pint of Water, it hath a cooling and moistning quality like common *Lychnis*. *Dioscorides* says, Chickweed being bruised has the smell of a Cucumber.

All the common *Lychnis*'s are bitter sweets, and them I shall refer to the class of Bitters, tho their joynted Stalks and Sweetness may justly place them here, yet their chief Physical Virtue is from their Bitterness.

4. The Sweet Bitterish Styptic, and Subacid Fern.

I boyled ʒj of Fern Roots in ʒij of Water to half, the Taste was very Styptic and Bitterish, the Colour Citron.

The Mucilage and Stypticity make Fern an excellent Vulnerary, and Styptic in all Fluxes: the young Buds rubbed in the Fingers swell something like a Kernel, or the Laurel smell.

Dryopteris is described Astringent and Sweet, Acid and Bitterish.

Hemionitis has both Astringency and Bitterness.

Adiantum album & *nigrum* are Sweet and Styptic, and since Experience shews these to be good Pectorals, the other Ferns have the same Pectoral Virtue, as *Vulneraries*.

Herniaria is described as a Styptic.

In *Adiantum* there is something odorate. L' Emery.

Polypody is Bitterish, Sweet and Astringent, Nauseous and Sub-acrid and Slimy, it purges by this Taste both Choler and Flegm.

I boyled Harts Tongue ʒj in fʒj of Water to half; it was of the colour of Small Beer; the Taste was Mucilaginous, Sweet, Styptic, with an Aromatick flavor of Rasberries or Orris, which is its Cordial Vertue, joyned with Stypticity and Mucilage, by which 'tis proper for hot Hypochondriacs.

The Roots of *Osmunda* are of a Subacrid and Bitterish Taste, besides the Astringency, by which they open, but the Astringency much hinders that effect.

5. The Sweet, Acrid, Aromatics and Foetids, the Roots have more Sweetness and Aromatic Acrimony than the Leaves, which are more crude; the Seeds have most Aromatic Acrimony.

The Seeds of *Silva montanum* have an ungrateful smell like Cummin, and a Bitterish Taste.

Peucedanum is Bitter and Sweet. The Green Leaves of Coriander are foetid like *Punaises*.

Laserpitium is Acrid, Aromatic in Smell, and of a Sweet, Acrid, Aromatic Taste.

Sampire is of an Acrid Aromatic Taste, and the Smell of Smallage.

Cumin is Acrid, Aromatic and Bitterish, and of a disagreeable Smell.

Dracumulus Hortensis is sweet like Anis.

Ferula has an ungrateful Aromatic Odor.

The Seed of *Meum* is bitter.

Cachrys is Bitter, Acrid, Aromatic.

Cancalis and *Daucus* agree in Virtue and Taste.

Saxifragia pratensis has a great Root, Sweet and Acrid; the Leaves are most Aromatic, and the Seeds; it resembles the Taste of Parsly.

The Leaves of *Gingidium* are of a disagreeable strong smell, and the Roots bitter.

Tordylium is Sweet, Aromatic, *gravi odore*.

Percipier is like Chervil, and so is *Pecten Veneris*.

I refer the Umbells to the Grasses, because of their Sweetness and Joynted Stalks. Our Botanists have omitted the Sweet Taste in some of them, which are bitter. Most of them are of an Aromatic Smell and Taste, but some are foetid, virose and fervid in their Taste.

Smyrnum Root has the smell of Myrrh, with a Bitter Acrid Taste, and it helps the Urine and the Menfes like it.

The colour of the Specifick Juice is varicus : *Thyffelinum* and *Seseli praterse* have a Milk : The *Ferula*'s are Milky, or have a Saffron colour : Their Juices make *Sagapenum* and *Galbanum*.

The Juice of the Root of *Peucedanum* is reddish, and is called *Opoponax odore piceo vinso*.

The Root of *Syphondylium* has a Saffron coloured Juice, of a foetid and bitterish Taste.

'Tis observed that some Seeds grow bitter by the fault of the soyl in which they grow. All of this class have a Volatile Oyl and Acrid Salt, by which they are diuretic, carminative, and pectoral, also by their sweetness, Emmenagogue, if foetid.

I boyled Parsley Roots 3j in ʒbj of Water, to half, the Taste was Sweet, and Acrid, Aromatic, the Colour pale.

The Roots of *Meum* are Acrid, and smell strong ; too much of it offends the Head.

Libanotis has the smell and taste of the Seed of *Angelica*.

Sium or *Apium palustre fol. Oblongis* has an odor of Bitumen on all the Plant.

Thyffelinum is Bitter, Ingrate and Acrid.

The Decoction of *Angelica* Roots are bitterish, Aromatic, Acrid, and of a yellowish Colour.

Imperatoria Roots decocted smelled like *Angelica*, and tasted very Bitter and Acrid ; of a green Colour.

6. The Sweet, Acrid, Terebinthinate and Styptic.

Calamus, *Nardus*, *Cyperus*, agree in their Diuretic, Carminative and Emmenagogue Virtue, and their Stypticity, &c.

Calamus resembles a Reed ; it is an *Acorus*, the Taste resembles the Turpentine Plants, as well as its Cones.

Funcus odoratus is a Rush, with the smell of a Rose, when rubbed of a Burning, Acrid, Aromatic and Bitterish Taste.

Cyperus is of a pleasant Odor, like *Lign. Aloes* whilst it flowers, and of an Acrid, Aromatic, Bitterish, Styptic Taste.

Nardus resembles the flavor of *Cyperus* ; 'tis Bitterish, Astringent, Acrid and Aromatic.

The Roots of *Cyperus* are used for *Nardus*.

There is some foetor in *Valerian*, *Asurum*, *Serpentaria*, whose Roots have a little Sweetness, with a Terebinthinate Bitter Acrid, and all of them resemble *Spikenard odoris gravitate*, and have the same Diuretic, Carminative, Emmenagogue Virtue, and are proper for Malignant Fevers ; and a little Styptic. The

The Red Valerian has a crude Taste in the Stalks and Leaves, the Flowers rubbed smell like Turpentine; the Leaves smell nauseous, foetid; the Roots agree with Spikenard. *Spica Celtica* and the Flowers of Valerian agree well.

The Leaves of Wild Valerian boyled in Water yield a crude and foetid Mucilage.

The Tincture of the Roots of Valerian, extracted with Spirit of Wine and Sal Armoniac, fines it much.

The Roots of *Afarum* are Geniculate as Grasses, and taste very Acrid, Aromatic and Bitterish; 'tis called *Sylvestre Nardum*, and for its similitude referrible to it. The Antients attributed the same Virtue to *Afarum* as to *Acorus*, but more intense and strong.

Galen observed that *Phu* was an Odorate Root, like *Nardum* in virtue.

Pliny observed that *Cyperus* was a *Gladiolus bulbosa radice*, and like the Odor of *Nardum*.

The Decoction of *Ascirum* was greenish, with a strong smell of Spikenard, and Bitterish Acrid.

The Decoction of Valerian Roots of the same Taste, but pale colour, and smell of Spikenard, but weaker; they seem to be of the same Class.

7. The Sweet, Fervid Acrid, Bitterish, and Aromatic like Orris in Taste.

The Roots of Orris are Geniculate like Grass.

The *Florentine* Roots are bitterish and sweet, and of a burning Taste.

The Water Flag is burning and styptic, but of no smell; the Flowers of common Orris have an ill smell, tho' the Roots be Aromatic. The whole Herb smells like Elder whilst 'tis fresh bruised, but when dry 'tis Odorate; it gives a Raspberry Taste to Drinks, and purges.

The great Galangal is Aromatic, Acrid, Burning and Bitterish; the Roots also geniculate, odorate; in form like *Cyperus*.

The Roots of *Acorus* are geniculate, acrid, burning, bitterish and aromatic; it resembles Orris both in Leaves and Roots.

Ginger is acrid, burning and aromatic like Pepper; the Leaves are like *Iris Palustris*.

Zedoairy smells like Camphire, and is of a strong Taste, rather than sweet, 'tis very bitter, and less acrid, but resembles Ginger.

Costus is very burning, acrid and aromatic, and bitterish; it agrees with the vertue of Orris, both in its dissolving quality and deobstructing.

S f f f f f

Costus

Costus Dulcis has a sweet Taste, and acrid ; but the bitter has an ungrateful kind of Taste ; but there is but one species of *Costus*, the fresh is sweet and white, the old is bitter and blackish.

Gladiolus has a bulbose Root, sweet, and moderately acrid or burning ; and the Leaves are like *Orris*.

Xyris is of an ungrateful foetid odor, like *Cimices*; in form and figure like *Orris*.

Costus Arabicus is acrid, bitter and aromatic in Taste.

The Roots of *Contrayerva* smell like Fig-leaves, are like *Orris* Roots in figure, they being chewed ; taste sweet, aromatic and acrid, and have also an astringent Taste.

Cardamomum has the Stalk and Leaves of a Reed, the Seeds in pods of a burning ; acrid, bitterish, aromatic Taste.

Amomum by its external figure and virtue agrees with *Cardamomum* ; some reckon it like *Acorus*.

Grana Paradisi are of a foetid and aromatic Taste, betwixt *Cardamoms* and *Pepper*, and agrees with the same in virtue in Paralytic cases.

The Grains of *Paradise* infused in Wine gives the odor of *Quinces*. *Salmon*.

The Roots of our yellow Flag are large and reddish ; our Countrymen scrape them and pound them, then mix them with Milk, and give them twice to a Dog, as an infallible Medicine against the bite of a Mad Dog. A person who took them told me they did not purge, but tasted very rough. The Decoction is of a reddish colour, and rough.

8. The Sweet Mucilaginous Pea-tastes, or Legumens.

I boyled *Vicia* ʒj in lbj of Water to lbß, which tasted sweet and crude styptic, the colour was pale and greenish.

I boyled *Lens Palustris* in the same manner, and found the Decoction of a turbid colour, and reddish like Mum ; it is a Legumen by this Intense Colour, as well as by the Taste, which was Sweetish, Subacrid and Styptic. Note, that Snails and other Insects are usually mixt with it.

I boyled *Lagopus* in the same quantity as the other ; the Taste of the Decoction was styptic, crude and bituminous.

The *Cortex Lentium* is styptic and binding ; the Seed of it mucilaginous and loosening ; and this breeds an ill, flatulent and crude Juice, obstructing the circulation of the Blood and Spirits, injurious to the Sight and Menses ; and by their flatulency producing turbulent Dreams.

The

The Leaves of *Liquorish* feel gummose, the Roots are sweet and subacrid.

Tamarinds are of an acid, acrid and sweet mucilaginous Taste; the Stones have the figure of *Lupins*; the Leaves of *Tamarinds*; are of an acid agreeable Taste; and they must be referred to the *Services* and *Berberries*, tho by the Cods and Seeds I erroneously have class'd them with *Cassia* or *Lupins*.

Fumatterry is subacrid, bitterish, mucilaginous, and legumen, tho the Flowers be not.

Radix Cava has bitter sweet Roots like Beans, and a mealy sub-acrid Taste; the Leaves have a crude smell like *Fumatterry*, and of the same virtue.

The Skin of the Bean is styptic, but the fleshy part bitterish leguminous.

Coffee is bitterish and of the Bean kind, in which there is a Volatile Salt, which raises the Spirits, and produces Urine and the Menfes.

Orobis is of an ingrateful bitterish Taste; all the bitter Legumens open obstructions and promote Urine, as *Kidney Beans*, &c.

I boyled Broom ʒj in Water lbj to lbʒ, the Taste was moderately bitter, sweet and styptic, not nauseous, and without any heat.

I boyled of *Genista Spinosa* rootes ʒj in lbj of Water to lbʒ, the Colour was like Small Beer, the Taste mucilaginous, styptic, without any great bitterishness or acrimony; the Root tastes bitterish, mucilaginous, styptic; it may be proper for the Stone by those Tastes, and for Fluxes.

The Leaves of *Bruscus* have the smell of Broom when bruised, and its bitterishness and stypticity and sweetness, and are subacrid; and by this Taste a Legumen.

Crato describes Sena as if it had *Viscidumquid*, by which it gripes; and by the Taste he discovered the bitterishness and astringency. *Matthioli* observed its viscous Taste and bitterishness, with a virulent nauseous odor, like *Cynoglosse* or *Punica*. The filiqua, as well as the sweet taste and flowers, prove it a legumen.

Polygala boyled with the Blue Flowers gave a Colour Blue like Violets, and the Taste was very mucilaginous, the Plant is aromatic, acrid.

ʒj of *Violatri* Color boyled in lbj of Water to half, made a Decoction of a Greenish Colour, like Cowslip Wine, and it tasted gratefully and mucilaginous; the Roots of *Polygala* are acrid and aromatic; it purges Bile.

The Decoction of the Root of *Periclymenum* is styptic and bitter, and of sweet leguminous Taste.

Purple Trefoyle is mucilaginous and styptic, by which it cools **Feaverish** heats, and by its burning acrimony it expel the putrid particles in **Pecthial Feavers** and **Fluxes**.

The Leaves of **Red Trefoyl** rubbed smell acid, and the Flowers bruised smell like **Woodbind**. The Decoction of \mathfrak{zj} in \mathfrak{fsj} of Water to half gave a **Greenish Colour**, pale; and the Taste was of a crude mucilaginous leguminous Taste, with an acrimony, by which 'tis a great **Diuretic** and **Ophthalmic**.

The Decoction of **Purple Trefoyl** has a turbid Colour, and mucilaginous Taste.

The Leaves of *Periclymenum* are acid and acrid; the Flowers more sweet, the style is of a Bean Taste, and the Twigs of the same.

The *Stamina* have the Taste of the Flower, and their Heads are very acrid.

Trifolium Fraticans is Bacciferous, with a Blue Juice, and tho it wants Cods 'tis a Legumen, as well as *Periclymenum*, which is bacciferous.

The Flowers of **Asparagus** are hexapetal, and of an Herbaceous color; the Seed is a Pea, without a Cod, the Root is of a sweet glutinous acrid Taste; the tops of it boyled resemble Peas Pottage, and are evidently of a Leguminous Taste.

In the Legumens these are irregular, in Flowers or Cods, they are notwithstanding certainly of that Class; by which we may infer, that the Taste gives the most certain character of a Class.

The *Herba Mimosa* has an Herbaceous odor, and a mucilaginous bitterish ingrateful Taste; the Root is of a Taste more grateful, without bitterishness, but of a violent smell like Garlick when first got, offending the Smell and Head, and is accounted a Poyson. *Morison*.

Mesue observes that *Psyllium* has contrary Virtues; 'tis of a mucilaginous, acrid and nauseous Taste: The *Medulla* is hot and exulcerating; the *Cortex* is moistening and cooling.

Gossypium is a Plant like *Linum*, both in Leaves, Flower and Stalk.

There is a bitterness in *Linaria Morson*. *Linaria* is by its Flower of the Leguminous Class, and probably *Linum* is of the same, tho the Flowers disagree, being like it in Leaves.

Linseed has the same virtue as **Fennugreeke**, which is a Legumen. The Leaves of **Flax** are gummose and bitterish, subacid; the Flowers are *Pentapetali*, which differ from the Legumens.

I boyled \mathfrak{zj} of *Galega* in \mathfrak{fsj} of Water to the half, the Color was pale, the Taste nauseous, bitter sweet and mucilaginous, and the Odor nauseous and foetid.

The fresh Leaves of *Trifolium Asphaltites* smells like Rue, when ripe like Bitumen.

The Decoction of *Ononis* was mucilaginous, subacid, the Colour was Greenish.

The Leaves of *Consolida Regalis* are of a crude smell, the Seeds are in Cods and Taste leguminous. The whole Plant is of a disagreeable Taste.

Glastrum and *Opiloglossum* are of the same virtue, and *Luteola* is like them; place them here or with the Cresses.

Thalictrum must be referred to the Docks both by its taste and virtue.

Lignum Nephriticum is subacid and bitterish.

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